BRUHAT BANGALORE MAHANAGARA PALIKE

Project Name: -Construction of Basavalingappa Samudhaya Bhavana in Byatarayanapura and construction of Ambedkar Bhavan in Amruthahalli in ward no. 7 Byatarayanapura Kodigehalli sub division.

Client	**Sri. K. Shankar Reddy, #03,1st cross, Veeranna palya, Ramachandrappa Layout, Bangalore-5600**
WORKSLIP and EIRL RATE ANALYSIS	
Approved Amount	**24756579.400**
Name of Contractor:-	**Sri. K. Shankar Reddy, #03,1st cross, Veeranna palya, Ramachandrappa Layout, Bangalore-560045**
Tender premium:-	**(+)11.00%**

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
14	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing etc complete as per specifications and directions of engineer in charge of the work	cum	Pg No.13 of KPWD S.R 2018-19	4.6	5422.00	-	5422.00	433.76	5855.76	644.13	6499.89
17	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work	sqm	Pg No.17 of KPWD S.R 2018-19	4.34	292.00	-	292.00	23.36	315.36	34.69	350.05

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
20	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work	sqm	Pg No.17of KPWD S.R 2018-19	4.38	520.00	-	520.00	41.6	561.60	61.78	623.38
21	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work (First Floor)	sqm	Pg No.17of KPWD S.R 2018-19	4.38	520.00	5	525.00	42	567.00	62.37	629.37
36	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Sqm	Pg No.116 of KPWD S.R 2018-19	15.21	235.00	0	235.00	18.8	253.80	27.92	281.72
39	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work (First Floor)	Sqm	Pg No.116 of KPWD S.R 2018-19	15.16	261.00	6	267.00	21.36	288.36	31.72	320.08
E1	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour complete as per specificaiton and as per the directions of the Engineer-in-charge of the work	sqm	Pg No.17of KPWD S.R 2018-19	4.37	323.00	0	323.00	25.84	348.84	38.37	387.21

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E2	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	Sqm	Pg No.15of KPWD S.R 2018-19	4.19	440.00	5	445.00	35.6	480.60	52.87	533.47
E3	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Ground Floor)	Sqm	Pg No.27 of KPWD S.R 2018-19	5.28	811.00	0	811.00	64.88	875.88	96.35	972.23
E4	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (First Floor)	Sqm	Pg No.27 of KPWD S.R 2018-19	5.28	811.00	35	846.00	67.68	913.68	100.50	1014.18
E5	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Ground Floor)	Sqm	Pg No.117 of KPWD S.R 2018-19	15.30	205.00	0	205.00	16.4	221.40	24.35	245.75

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E6	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Ground Floor)	Sqm	Pg No.117 of KPWD S.R 2018-19	15.30	205.00	6	211.00	16.88	227.88	25.07	252.95
E7	Providing Teak wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33.	Cum	Pg No.53 of KPWD S.R 2018-19	9.1	160082.00	0	160082.00	12806.56	172888.56	19017.74	191906.30
E8	Providing and fixing in position fully panelled Teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (First Floor)	Sqm	Pg No.53 of KPWD S.R 2018-19	9.14	8108.00	4	8112.00	648.96	8760.96	963.71	9724.67
E9	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm	Sqm	Pg No.109 of KPWD S.R 2018-19	14.47.1	2739.00	2	2741.00	219.28	2960.28	325.63	3285.91

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E10	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size etc complete as per specifications and directions of engineer in charge of the work (First Floor)	Sqm	Pg No.60 of KPWD S.R 2018-19	9.84	468.00	2	470.00	37.6	507.60	55.84	563.44
E11	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges etc complete as per specifications and directions of engineer in charge of the work (First Floor)	Sqm	Pg No.60 of KPWD S.R 2018-19	9.83	2777.00	2	2779.00	222.32	3001.32	330.15	3331.47

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E12	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries etc complete as per specifications and directions of engineer in charge of the work (First Floor)	Cum	Pg No.53 of KPWD S.R 2018-19	9.11	87604.00	4	87608.00	7008.64	94616.64	10407.83	105024.47
E13	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) etc complete as per specifications and directions of engineer in charge of the work	Sqm	Pg No.53 of KPWD S.R 2018-19	9.15	4722.00	4	4726.00	378.08	5104.08	561.45	5665.53
E14	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification.	Sqm	Pg No.128of KPWD S.R 2018-19	15.106	78.00	0	78.00	6.24	84.24	9.27	93.51
E15	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications.	Sqm	Pg No.128of KPWD S.R 2018-19	15.106	118.00	0	118.00	9.44	127.44	14.02	141.46

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E16	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer.	Sqm	Pg No.119of KPWD S.R 2018-19	15.51.2	90.00	0	90.00	7.2	97.20	10.69	107.89
E17	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon Glazed primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm	Pg No.127 of KPWD S.R 2018-19	15.104	180.00	0	180.00	14.4	194.40	21.38	215.78
E18	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon Glazed primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (First Floor)	Sqm	Pg No.127 of KPWD S.R 2018-19	15.104	180.00	6	186.00	14.88	200.88	22.10	222.98
E19	Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc.,complete.	Sqm	Pg No.110 of KPWD S.R 2018-19	14.51	4456.00	0	4456.00	356.48	4812.48	529.37	5341.85

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E20	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.(Ground Floor)	Sqm	Pg No.45of KPWD S.R 2018-19	7.38	6021.00	0	6021.00	481.68	6502.68	715.29	7217.97
E21	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.(First Floor)	Sqm	Pg No.45of KPWD S.R 2018-19	7.38	6021.00	6	6027.00	482.16	6509.16	716.01	7225.17
E22	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 (Ground Floor)	Sqm	Pg No. 108 of KPWD S.R 2018-19	14.41.2	1632.00	0	1632.00	130.56	1762.56	193.88	1956.44

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E23	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. (First Floor)	Sqm	Pg No. 108 of KPWD S.R 2018-19	14.41.2	1632.00	2	1634.00	130.72	1764.72	194.12	1958.84
E24	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specification (Ground Floor)	Sqm	Pg No. 109 of KPWD S.R 2018-19	14.44	1035.00	0	1035.00	82.8	1117.80	122.96	1240.76
E25	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specification (Ground Floor)	Sqm	Pg No. 108 of KPWD S.R 2018-19	14.44	1035.00	2	1037.00	82.96	1119.96	123.20	1243.16

Asst Engineer

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE												
Project Name: -Construction of Basavalingappa Samudhaya Bhavana in Byatarayanapura and construction of Ambedkar Bhavan in Amruthahalli in ward no. 7 Byatarayanapura Kodigehalli sub division.												
Client		**Sri. K. Shankar Reddy, #03,1st cross, Veeranna palya, Ramachandrappa Layout, Bangalore-5600**										
EIRL-II RATE ANALYSIS												
Approved Amount		**24726580.59**										
Name of Contractor:-		**Sri. K. Shankar Reddy, #03,1st cross, Veeranna palya, Ramachandrappa Layout, Bangalore-560045**										
Tender premium:-		**(+)11.00%**										
Sl No	**Description.**	**Unit**	**Page**	**Item**	**Basic rate**	**Lift charges**	**Total**	**AW @ 8%**	**Total Rate**	**Add T.P (+)11.00%**	**Final Rate.**	
E26	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for	Sqm	Data rates								12475.00	

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E27	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Pg no:120.Item no:15.74	Sqm	Pg No. 123 of KPWD S.R 2018-19	15.74	95.00	0	95.00	7.6	102.60	11.29	113.89
E28	Providing 20mm square M.S footrest and fixing in manhole Nos 232.00 with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications.	Sqm	Pg No. 75 of KPWD S.R 2018-19	11.44	276.00	0	276.00	22.08	298.08	32.79	330.87
E29	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work.	sqm	Data rates								9144.00

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E30	Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM and testing complete as per specifications. (For 1000 litre capacity)	Nos	Pg No. 96 of KPWD S.R 2018-19	13.78	6828.00	0	6828.00	546.24	7374.24	811.17	8185.41
E31	Providing and fixing white vitreous china clay, flat back wash basin with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. size of 550 x 400mm	Nos	Pg No. 83 of KPWD S.R 2018-19	12.26	3021.00	0	3021.00	241.68	3262.68	358.89	3621.57
E32	Providing pedestal for wash basin of approved 1st quality and make conforming to ISI Specifications and fixing for low down cistern as directed .Rate includes cost of materials and conveyance to work spot.	Nos	Pg No. 89 of KPWD S.R 2018-19	12.108	900.00000	0	900.00	72	972.00	106.92	1078.92
E33	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Nos	Pg No. 79 of KPWD S.R 2018-19	12.5	4956.00	0	4956.00	396.48	5352.48	588.77	5941.25
E34	Providing and fixing 600x450mm bevelLead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with C.P screws, washers, including cost of materials, labour complete as per specifications.	Nos	Pg No. 84 of KPWD S.R 2018-19	12.39	1157.00	0	1157.00	92.56	1249.56	137.45	1387.01

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E35	Providing and fixing in position brass bib cock of approved quality nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. 15 mm dia nominal bore	Nos	Pg No. 93 of KPWD S.R 2018-19	13.23	190.00	0	190.00	15.2	205.20	22.57	227.77
E36	Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore of PVC connection including cost of all materials, labour and HOM with all leads complete as per specifications.450mm length	set	Pg No. 94 of KPWD S.R 2018-19	13.47	264.00	0	264.00	21.12	285.12	31.36	316.48
E37	Providing and fixing chorinated poly vinyl Chloride (CPVC) pipes 25mm dia conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete.	m	Pg No. 98 of KPWD S.R 2018-19	13.85.3	196.00	0	196.00	15.68	211.68	23.28	234.96
E38	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgf/sq.cm working pressure with pipe fittings, wall clips, and making good the wall, ceiling and floor for sanitary pipelines, including cost of all materials, labour charges, HOM and testing complete as per specifications 140 mm di	m	Pg No. 90 of KPWD S.R 2018-19	12.116.2	688.00	0	688.00	55.04	743.04	81.73	824.77

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E39	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top with table moulded non modular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid separately) Specification No. KBS 12.deep 0.91m	Nos	Pg No. 73 of KPWD S.R 2018-19	11.37	14705.00	0	14705.00	1176.4	15881.40	1746.95	17628.35
E40	Constructing brick masonry inspection chamber 450X450 and 450mm depth for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty)450x450mm, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.	Nos	Pg No. 76 of KPWD S.R 2018-19	11.50.3	5300.00	0	5300.00	424	5724.00	629.64	6353.64

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E41	Concealed Conduit System Supplying heavy gauge PVC conduit pipe ……mm dia ..... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary										
a	19/20mm dia 2mm thick	Mtr	Pg No. 2 of El S.R 2019-20	1.2.1	40.00	0	40.00	0	40.00	4.40	44.40
b	25mm dia 2mm thick.	mtr	Pg No. 2 of El S.R 2019-20	1.2.2	53.00	0	53.00	0	53.00	5.83	58.83
E42	Supplying heavy gauge PVC Conduit Pipe ….dia ....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.										
a	19/20mm dia 2mm thick	mtr	Pg No. 2 of El S.R 2019-20	1.3.1	51.00	0	51.00	0	51.00	5.61	56.61
b	25mm dia 2mm thick	mtr	Pg No. 2 of El S.R 2019-20	1.3.2	54.00	0	54.00	0	54.00	5.94	59.94

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E43	Supplying and fixing PVC/metal conduit Deep junction box 25mm deep junction box	Nos	Pg No. 3 of El S.R 2019-20	1.5.2	47.00	0	47.00	0	47.00	5.17	52.17
E44	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete.										
a	upto 50mm conduit in brick wall	m	Pg No. 3 of El S.R 2019-20	1.7.1	21.00	0	21.00	0	21.00	2.31	23.31
b	upto 50mm conduit CC floor	m	Pg No. 3 of El S.R 2019-20	1.7.2	38.00	0	38.00	0	38.00	4.18	42.18
E45	Supplying PVC/GI flexible conduit pipe…mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of thepi pe terminated completely 25mm	m	Pg No. 3 of El S.R 2019-20	1.9.2	28.00	0	28.00	0	28.00	3.08	31.08
E46	Supplying And Fixing Metal Fan Box with Round Hook	Nos	Pg No. 3 of El S.R 2019-20	1.12	85.00	0	85.00	0	85.00	9.35	94.35
E47	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.										

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
a	Short point upto 3Mtr from tapping point to out let via switch (P No 5 ; I No 2.2.1)	Pts	Pg No. 5 of El S.R 2019-20	2.2.1	160.00	0	160.00	0	160.00	17.60	177.60
b	Medium point above 3M. upto 6M from tapping point to out let via switch (P No 5 ; I No 2.2.2)	Pts	Pg No. 5 of El S.R 2019-20	2.2.2	250.00	0	250.00	0	250.00	27.50	277.50
Client	Long point above 6Mtr. upto 10M from tapping point to out let via switch (P No 5 ; I No 2.2.3)	Pts	Pg No. 5 of El S.R 2019-20	2.2.3	375.00	0	375.00	0	375.00	41.25	416.25
d	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches (P No 6 ; I No 2.2.4)	Pts	Pg No. 5 of El S.R 2019-20	2.2.4	475.00	0	475.00	0	475.00	52.25	527.25
e	Three outlet in a row, above 6Mtr upto 10Mtr from tapping point to out let via switches (P No 6 ; I No 2.2.5)	Pts	Pg No. 5 of El S.R 2019-20	2.2.5	675.00	0	675.00	0	675.00	74.25	749.25
E48	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.										
	1 sqmm (P.No. 6, I.No.2.3.1)	Mtr	Pg No. 5 of El S.R 2019-20	2.3.1	14.00	0	14.00	0	14.00	1.54	15.54

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
	1.5 sqmm (P.No. 6, I.No.2.3.2)	Mtr	Pg No. 5 of El S.R 2019-20	2.3.2	20.50	0	20.50	0	20.50	2.26	22.76
	2.5 sqmm (P.No. 6, I.No.2.3.3)	Mtr	Pg No. 6 of El S.R 2019-20	2.3.3	32.00	0	32.00	0	32.00	3.52	35.52
	4 sqmm (P.No. 6, I.No.2.3.4)	Mtr	Pg No. 6 of El S.R 2019-20	2.3.4	45.00	0	45.00	0	45.00	4.95	49.95
	6 sqmm (P.No. 6, I.No.2.3.5)	Mtr	Pg No. 6 of El S.R 2019-20	2.3.5	70.00	0	70.00	0	70.00	7.70	77.70
	10 sqmm (P.No. 6, I.No.2.3.6)	Mtr	Pg No. 6 of El S.R 2019-20	2.3.6	115.00	0	115.00	0	115.00	12.65	127.65
E49	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall										
	1-3Way(P.NO 9,3.4.1)	No	Pg No. 9 of El S.R 2019-20	3.4.1	95.00	0	95.00	0	95.00	10.45	105.45

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.06%	Final Rate.
	4-5Way(P.NO 9,3.4.2)	No	Pg No. 9 of El S.R 2019-20	3.4.2	105.00	0	105.00	0	105.00	11.55	116.55
	6Way(P.NO 9,3.4.3)	No	Pg No. 9 of El S.R 2019-20	3.4.3	125.00	0	125.00	0	125.00	13.75	138.75
	8Way(P.NO 9,3.4.4)	No	Pg No. 9 of El S.R 2019-20	3.4.4	145.00	0	145.00	0	145.00	15.95	160.95
	10-12Way(P.NO 9,3.4.5)	No	Pg No. 9 of El S.R 2019-20	3.4.5	165.00	0	165.00	0	165.00	18.15	183.15
	16-18Way(P.NO 9,3.4.6)	No	Pg No. 9 of El S.R 2019-20	3.4.6	180.00	0	180.00	0	180.00	19.80	199.80
E50	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.										
	1 to 3 Module(P.NO 9,3.5.1)	No	Pg No. 9 of El S.R 2019-20	3.5.1	110.00	0	110.00	0	110.00	12.10	122.10

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
	4 Module(P.NO 9,3.5.2)	No	Pg No. 9 of El S.R 2019-20	3.5.2	125.00	0	125.00	0	125.00	13.75	138.75
	6 Module(P.NO 9,3.5.3)	No	Pg No. 9 of El S.R 2019-20	3.5.3	175.00	0	175.00	0	175.00	19.25	194.25
	8 Module(P.NO 9,3.5.4)	No	Pg No. 9 of El S.R 2019-20	3.5.4	200.00	0	200.00	0	200.00	22.00	222.00
	12 Module(P.NO 9,3.5.5)	No	Pg No. 9 of El S.R 2019-20	3.5.5	230.00	0	230.00	0	230.00	25.30	255.30
	16-18 Module(P.NO 9,3.5.6)	No	Pg No. 9 of El S.R 2019-20	3.5.6	270.00	0	270.00	0	270.00	29.70	299.70
E51	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.										
	6Amps one way.(P.NO 10,3.6.1)	No	Pg No. 10 of El S.R 2019-20	3.6.1	70.00	0	70.00	0	70.00	7.70	77.70

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
	6Amps two way.(P.NO 10,3.6.2)	No	Pg No. 10 of El S.R 2019-20	3.6.2	95.00	0	95.00	0	95.00	10.45	105.45
	6Amps 3way socket.(P.NO 10,3.6.3)	No	Pg No. 10 of El S.R 2019-20	3.6.3	105.00	0	105.00	0	105.00	11.55	116.55
	Stepped Fan Regulator.(P.NO 10,3.6.4)	No	Pg No. 10 of El S.R 2019-20	3.6.4	290.00	0	290.00	0	290.00	31.90	321.90
	16Amps one way switch (P.NO 10,3.6.8)	No	Pg No. 10 of El S.R 2019-20	3.6.8	115.00	0	115.00	0	115.00	12.65	127.65
	32Amps DP switch (P.NO 10,3.6.10)	No	Pg No. 10 of El S.R 2019-20	3.6.10	182.00	0	182.00	0	182.00	20.02	202.02
	6/16Amps universal socket.(P.NO 10,3.6.11)	No	Pg No. 10 of El S.R 2019-20	3.6.11	162.00	0	162.00	0	162.00	17.82	179.82
E52	Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab.(P.NO 10,3.11)	No	Pg No. 10 of El S.R 2019-20	3.11	7.00	0	7.00	0	7.00	0.77	7.77

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E53	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.										
	6-32 Amps SP. (P.No.27, I.No.5.17.1)	No	Pg No.27 of El S.R 2019-20	5.17.1	434.00	0	434.00	0	434.00	47.74	481.74
	6-32 Amps DP.(P.No.27, I.No. 5.17.4)	No	Pg No.27 of El S.R 2019-20	5.17.4	909.00	0	909.00	0	909.00	99.99	1008.99
E54	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door 6 way TPN	nos	Pg No. 28 of El S.R 2019-20	5.18.10	3330.00	0	3330.00	0	3330.00	366.30	3696.30
E55	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.100Amps 4x30x6mm Aluminium Strips	m	Pg No. 30 of El S.R 2019-20	5.40.1	2050.00	0	2050.00	0	2050.00	225.50	2275.50
E56	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.										

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
	50x50x6mm	Mtr	Pg No. 30 of El S.R 2019-20	5.41.2	330.00	0	330.00	0	330.00	36.30	366.30
	40*40*6mm	Mtr	Pg No. 30 of El S.R 2019-20	5.41.1	255.00	0.00	255.00	0	255.00	28.05	283.05
	50X100X50X6mm C channel	Mtr	Pg No. 30 of El S.R 2019-20	5.41.4	630.00	0	630.00	0	630.00	69.30	699.30
E57	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.14SWG	Sqcms	Pg No. 30 of El S.R 2019-20	5.42.1	0.40	0	0.40	0	0.40	0.04	0.44
E58	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.(P.No.40, I.No.6.2)	0	Pg No. 40 of El S.R 2019-20	6.2	4150.00	0	4150.00	0	4150.00	456.50	4606.50

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E59	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip										
	GI Strip. 25x3mm	Mtr	Pg No. 40 of El S.R 2019-20	6.3.1	75.00	0	75.00	0	75.00	8.25	83.25
	Copper strip. 25x3mm.	No	Pg No. 40 of El S.R 2019-20	6.3.6	505.00	0	505.00	0	505.00	55.55	560.55
E60	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. 12 SWG. Copper Wire	Mtr	Pg No. 44 of El S.R 2019-20	6.18.4	58.00	0	58.00	0	58.00	6.38	64.38
E61	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-39753.5 core 25 sqmm	Mtr	Pg No. 40 of El S.R 2019-20	6.4.5	180.00	0	180.00	0	180.00	19.80	199.80
E62	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.										
	25 sqmm to 75 sqmm	Mtr	Pg No. 41 of El S.R 2019-20	6.5.2	15.50	0	15.50	0	15.50	1.71	17.21
	On wall structure.25 sqmm to 75 sqmm	Mtr	Pg No. 41 of El S.R 2019-20	6.5.7	35.00	0	35.00	0	35.00	3.85	38.85

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E63	Digging of trench of 0.6m deep * 0.50mtr wide refiling the trench to the required ground level & consolidating etc., complete. (As per Civil SR KSRB I-2, P.7)In soil (hard)	Mtrs	Pg No. 41 of El S.R 2019-20	6.6.2	102.00	0	102.00	0	102.00	11.22	113.22
E64	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable.	Mtrs	Pg No. 41 of El S.R 2019-20	6.7	100.00	0	100.00	0	100.00	11.00	111.00
E65	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.65mm	Mtrs	Pg No. 42 of El S.R 2019-20	6.9.3	566.00	0	566.00	0	566.00	62.26	628.26
E66	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)										
	32mm dia	No	Pg No. 42 of El S.R 2019-20	6.11.3	117.00	0	117.00	0	117.00	12.87	129.87
	50 mm dia	No	Pg No. 42 of El S.R 2019-20	6.11.5	255.00	0	255.00	0	255.00	28.05	283.05
	75mm dia	No	Pg No. 42 of El S.R 2019-20	6.11.7	496.00	0	496.00	0	496.00	54.56	550.56
E67	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.										

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
	2.5sqmm	No	Pg No. 43 of El S.R 2019-20	6.17.2	4.00	0	4.00	0	4.00	0.44	4.44
	4sqmm	No	Pg No. 43 of El S.R 2019-20	6.17.3	7.00	0	7.00	0	7.00	0.77	7.77
	6sqmm	No	Pg No. 43 of El S.R 2019-20	6.17.4	7.00	0	7.00	0	7.00	0.77	7.77
	10sqmm	No	Pg No. 43 of El S.R 2019-20	6.17.5	8.00	0	8.00	0	8.00	0.88	8.88
E68	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.15" Sweep	No	Pg No. 46 of El S.R 2019-20	7.2.2	4000.00	0	4000.00	0	4000.00	440.00	4440.00

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E69	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS:1709/1984 with latest amendment, Rated voltage 220 V/ 50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value ≥ 4.2 CMM / Watt, Three Blades of blade leaf 1.05mm thick Aluminium Alloy sheet, Class B motor insulation,Bearing Two ball bearings, Top 6202, Bottom 6201 , as per IS specification, Motor wdg. Temp rise Shall not exceed 75 degC over and ambient of 40 0C by resistance method at 245Volts, Insulation resistance Shall not be less than Two Mega Ohms (2 M Ohms), Leakage current Should not exceed 210Micro Amp, Power input, watt& current , Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty48" Sweep 5 Star (1200mm)	No	Pg No. 46 of El S.R 2019-20	7.4.1	2900.00	0	2900.00	0	2900.00	319.00	3219.00
E70	Supplying of .....feet - PVC Batten with integrated LED tube.....W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.LED light fighting 1 x 4' - 20/22w	No	Pg No. 64 of El S.R 2019-20	12.3.2	375.00	0	375.00	0	375.00	41.25	416.25

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E71	Supplying of recess mounting non integrated type LED down light ..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clamps, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 15-18W	No	Pg No. 65 of El S.R 2019-20	12.4.3	2000.00	0	2000.00	0	2000.00	220.00	2220.00

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E72	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation.Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection-Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government	No	Pg No. 67 of El S.R 2019-20	12.8.6	12300.00	0	12300.00	0	12300.00	1353.00	13653.00
E73	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed forfixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts, nuts and wiring using suitable capacity wires.Using 25mm dia G.I.Pipe	No	Pg No. 79 of El S.R 2019-20	14.2.1	972.00	0	972.00	0	972.00	106.92	1078.92
E74	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires	No	Pg No. 79 of El S.R 2019-20	14.5	175.00	0	175.00	0	175.00	19.25	194.25

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW @ 8%	Total Rate	Add T.P (+)11.00%	Final Rate.
E75	Fixing all types and all capacities of fluorescent / false ceiling/ spot light / CFL / LED fittings indoor on the wall / ceiling /rafters / girders using 23/0.0076" twin twisted PVC insulatedwires, required Nos of round blocks and clamps. Oon wall/ceiling/ rafter/ girders	No	Pg No. 79 of El S.R 2019-20	14.7.1	110.00	0	110.00	0	110.00	12.10	122.10
E76	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired	No	Pg No. 80 of El S.R 2019-20	14.9	260.00	0	260.00	0	260.00	28.60	288.60
	Extra length of GI pipe of class B 19mm dia for down rod..	No	Pg No. 80 of El S.R 2019-20	14.10	160.00	0	160.00	0	160.00	17.60	177.60
E77	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire..	No	Pg No. 80 of El S.R 2019-20	14.12	400.00	0	400.00	0	400.00	44.00	444.00

Asst Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer